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FIRE CAN RADAR
HANOI SAM SITE A22-2 (VN 263), NORTH VIETNAM
20-56-55N 105-47-51E

MISSION UE-7543, 18 MAY 1972



25X1



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N-8261/72

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REFERENCE TO: UE J7543

FIRE CAN RADAR AT HANOI
SAM SITE A22-2 (VN 263)
NORTH VIETNAM

1. SIGNIFICANCE:

USE OF THE FIRE CAN RADAR WITH THE SA-2
SYSTEM IN NORTH VIETNAM TO PROVIDE AN
ELECTRONIC COUNTER-COUNTER MEASURE AGAINST
AIRCRAFT RADAR HOMING AND WARNING RECEIVERS.

2. LOCATION:

NORTH VIETNAM SAM SITE A22-2 (VN 263)
 IS LOCATED 5.8 NAUTICAL
MILES SOUTH-SOUTHWEST OF HANOI AT
20-56-55N 105-47-51E.

25X1

3. BACKGROUND:

HANOI SAM SITE A22-2 WAS FIRST IDENTIFIED
ON PHOTOGRAPHY OF IT IS
A CONVENTIONAL SITE CONTAINING SIX REVETTED
LAUNCH POSITIONS, A REVETTED GUIDANCE AREA,
AND A REVETTED ACQUISITION RADAR SITE. AN
ADDITIONAL RADAR SITE, CONSISTING OF TWO
REVETMENTS WAS LOCATED 250 METERS (820 FEET)
SOUTHWEST OF THE SAM SITE.

25X1

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4. REMARKS:

THE COLLOCATION OF A FIRE CAN RADAR AT A SAM SITE INDICATED THAT THE NORTH VIETNAMESE ARE PROBABLY USING THIS AAA FIRE CONTROL RADAR AS A TRACKING AID FOR THE SA-2 SYSTEM. USED IN THIS ROLE THE FIRE CAN SERVES AS AN ELECTRONIC COUNTER-COUNTER MEASURE (ECCM). RADAR HOMING AND WARNING (RHAW) RECEIVERS IN AIRCRAFT OPERATING OVER THE SAM SITE WILL NOT REGISTER INDICATIONS OF FAN SONG (SA-2) TRACKING. THIS IS PROBABLY DONE BY THE FIRE CAN ILLUMINATING A TARGET AND THE REFLECTED ENERGY BEING RECEIVED BY THE FAN SONG OPERATING PASSIVELY IN A LOBE-ON-RECEIVE-ONLY (LORO) MODE. MODIFICATION OF THE FIRE CAN PULSE REPETITION FREQUENCY (PRF) IS NECESSARY TO MAKE IT COMPATIBLE WITH THE FAN SONG PRF. THE FAN SONG CAN THEN TRACK A TARGET WITHOUT EMITTING CHARACTERISTIC

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4. REMARKS: (CONT'D) TRACK WHILE SCAN (TWS) SIGNALS. THE FAN SONG NEED ONLY BECOME AN ACTIVE EMITTER AFTER MISSILE LAUNCH AND THEN ONLY FOR MISSILE GUIDANCE. (SECRET)

5. MISSION READOUT: PHOTOGRAPHY OF OVER HANOI SAM SITE
A22-2 SHOWED THAT THE SITE WAS OCCUPIED WITH SIX LAUNCHERS (FOUR WITH MISSILES), ONE FAN SONG F TARGET TRACKING/MISSILE GUIDANCE RADAR, AND A SPOON REST ACQUISITION RADAR.

25X1

A FIRE CAN AAA FIRE CONTROL RADAR WAS LOCATED IN THE RADAR REVEITEMENT APPROXIMATELY 250 METERS (820 FEET) SOUTHWEST OF THE SITE. A SEPARATELY REVEITEMED COMMUNICATIONS/ELECTRONICS VAN TRUCK AND A GENERATOR TRAILER WERE ADJACENT TO THE FIRE CAN. THERE WERE NO AAA WEAPONS DISCERNIBLE IN THE VICINITY. NO CABLE WAS DISCERNIBLE BETWEEN THE FIRE CAN AND THE SA-2 SITE.

ENLARGEMENTS : 12X, INSET (30X)

25X1

IEG/SGD/SAB

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